

CLAIMS

What is claimed is:

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1. A system for driving a liquid crystal display (LCD) having a plurality of display cells arranged in a plurality of rows and a plurality of columns, comprising:

a plurality of row conductors;

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a row-driving means for selectively activating the row conductors;

a partitioning means for dividing each plurality of cells associated with a unique LCD column into a plurality of partitions;

a plurality of column conductors arranged orthogonal to the row conductors, wherein each column conductor is associated with a unique one of

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the plurality of partitions;

a column-driving means for selectively activating the column conductors;

and

a controlling means for operationally controlling the row and column driving means.

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2. The system according to Claim 1, wherein the number of row conductors is equal to the number of LCD display rows.

3. The system according to Claim 2, wherein the row-driving means comprises a plurality of row drivers, wherein each row driver is connectively coupled to a plurality of row conductors.

5 4. The system according to Claim 3, wherein each row driver is connectively coupled to at least two row conductors.

10 5. The system according to Claim 1, wherein the plurality of conductors associated with the plurality of partitions of each column of the LCD are adjacent and parallel to one another, each one of the plurality of conductors terminating at a same edge of the LCD.

15 6. The system according to Claim 1, wherein each column has two partitions.

7. The system according to Claim 6, wherein the column conductors associated with the two partitions terminate at opposing edges of the LCD, each conductor traversing one half of the column of the LCD.

20 8. A method for driving a liquid crystal display (LCD) having a plurality of cells arranged in rows and columns, comprising the steps of:

a) loading data into a plurality of column drivers;

b) activating a first row-driving means for a first one of a plurality of rows;

c) activating a first one of a plurality of column-driving means to display at least one cell from a first column partition that is located at an intersection
5 with the activated row;

d) activating a different one of the plurality of column-driving means to display at least one cell of another column partition that is located at an intersection with the activated row;

e) repeating step d) for each remaining partition;
10 f) deactivating the row and column driving means; and
g) repeating steps a) through f) for a another one of the plurality of rows.

9. The method according to Claim 8, wherein the data is loaded into the plurality of column drivers from a memory device.
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10. The method according to Claim 8, wherein the row driving means is activated by turning on a switch which connectively couples a row conductor to a ground potential.

20 11. The method according to Claim 8, whereby activating the column driving means comprises the steps of:

a) applying a current signal to a plurality of activated column drivers; and

b) terminating the applied current signal at each column driver when a voltage across each LCD cell rises to a predetermined magnitude.

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